Abstract

With the help of a method and device for nozzle-jetting oxygen into a synthesis

reactor, e.g. for oxy-dehydration, with largely axial flow of the gas mixture

through a catalyst bed, it is intended to vastly improve the mixing-in and

mixing-through of oxygen above the catalyst especially for oxy-dehydration

process.

This is achieved by feeding the oxygen to a ring distributor system arranged

above the catalyst bed in pure form, as air or mixed with inert gas or water

vapour and jetting the oxygen onto the catalyst surface through several exit

openings in the ring distributor at an inclined angle deviating from the vertical.

See also drawing: Fig. 2

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